

Biological Weapons Improved Response Program

Dr. Mohamed Mughal



*Homeland Defense Business Unit
U.S. Army Soldier and Biological Chemical Command
Department of Defense*

*Telephone: 410-436-4921
Email: mohamed.mughal@sbccom.apgea.army.mil*

Report Documentation Page

| | | |
|---|--|--|
| Report Date 30Apr2001 | Report Type N/A | Dates Covered (from... to) - |
| Title and Subtitle Biological Weapons Improved Response Program | Contract Number | |
| | Grant Number | |
| | Program Element Number | |
| Author(s) Mughal, Mohamed | Project Number | |
| | Task Number | |
| | Work Unit Number | |
| Performing Organization Name(s) and Address(es) U.S. Army Soldier and Biological Chemical Command Department of Defense | Performing Organization Report Number | |
| Sponsoring/Monitoring Agency Name(s) and Address(es) NDIA (National Defense Industrial Association) 211 Wilson Blvd, STE. 400 Arlington, VA 22201-3061 | Sponsor/Monitor's Acronym(s) | |
| | Sponsor/Monitor's Report Number(s) | |
| Distribution/Availability Statement Approved for public release, distribution unlimited | | |
| Supplementary Notes Proceedings from the Weapons of Mass Destruction (WMD) Terrorism Preparedness & Response Conference & Exhibition, 30 April - 2 May 2001 Sponsored by NDIA | | |
| Abstract | | |
| Subject Terms | | |
| Report Classification unclassified | Classification of this page unclassified | |
| Classification of Abstract unclassified | Limitation of Abstract UU | |
| Number of Pages 10 | | |



Improved Response Program (IRP)

U.S. Army Soldier and Biological Chemical Command

Developed out of Nunn-Lugar-Domenici Legislation (PL 104-201) to:

- Provide enhanced support to *improve the capabilities of state and local* emergency response agencies to prevent and respond to terrorist incidents involving weapons of mass destruction at both the national and local levels
- Enhance the capability of the federal government to *prevent and respond* to such events





Mission/Vision

U.S. Army Soldier and Biological Chemical Command

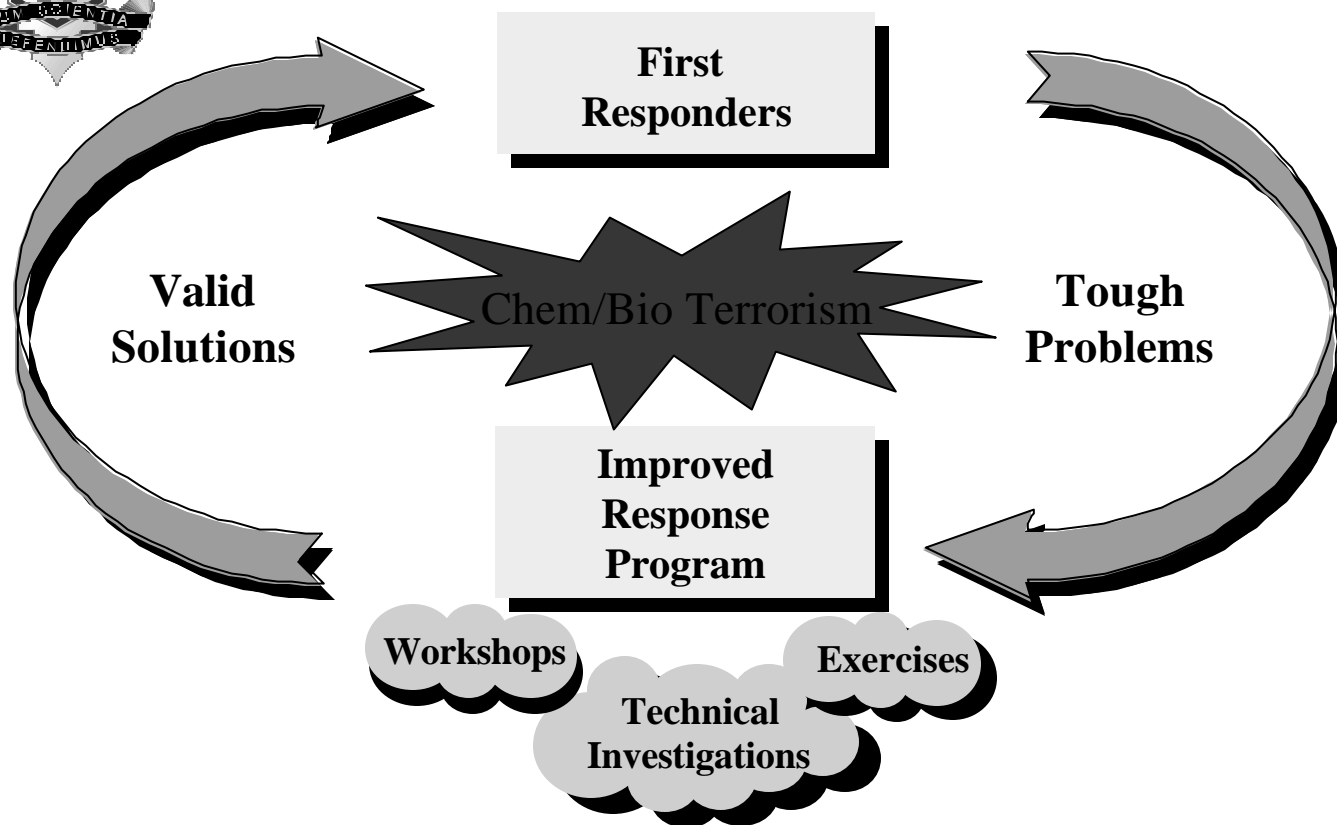
Mission: To continually improve the capability of federal, state, and local emergency responders to respond to a biological or chemical terrorist attack or crisis directed at U.S. national interest, by applying unique CB defense science and technology

Vision: To be the world leader in developing and applying improved approaches to responding to CB terrorism or other crises



IRP Process

U.S. Army Soldier and Biological Chemical Command



Enhance responder actions through systematic analysis of concepts, plans, procedures, and equipment



Biological Weapons (BW) IRP

U.S. Army Soldier and Biological Chemical Command

A team of over 60 federal, state, and local responders and technical experts drawn from across the nation

- **Emergency responders and managers from:**
Colorado, Kansas, New York, Delaware, New Jersey, Texas, Florida, Maryland, Washington
- **Federal agencies:**
USDA, DOE, DOD, PHS, CDC, EPA, FBI, FEMA
- **National laboratories:**
Oak Ridge, Brookhaven, Los Alamos, Sandia, Lawrence Livermore, Pacific Northwest



Biological Weapons (BW) IRP

U.S. Army Soldier and Biological Chemical Command

- **Workshops:**
 - Identify critical response activities and gaps
 - Identify and document best practical approaches to BW response
- **Technical investigations:**
 - Explore possible solutions to response gaps
- **Field tests:**
 - Validate and demonstrate BW response model component concepts



Biological Weapons (BW) IRP

U.S. Army Soldier and Biological Chemical Command

Accomplishments:

- Completed an assessment of the BW response problem
- Formulated an integrated approach to BW emergency response
- Identified gaps and improvements in response capabilities



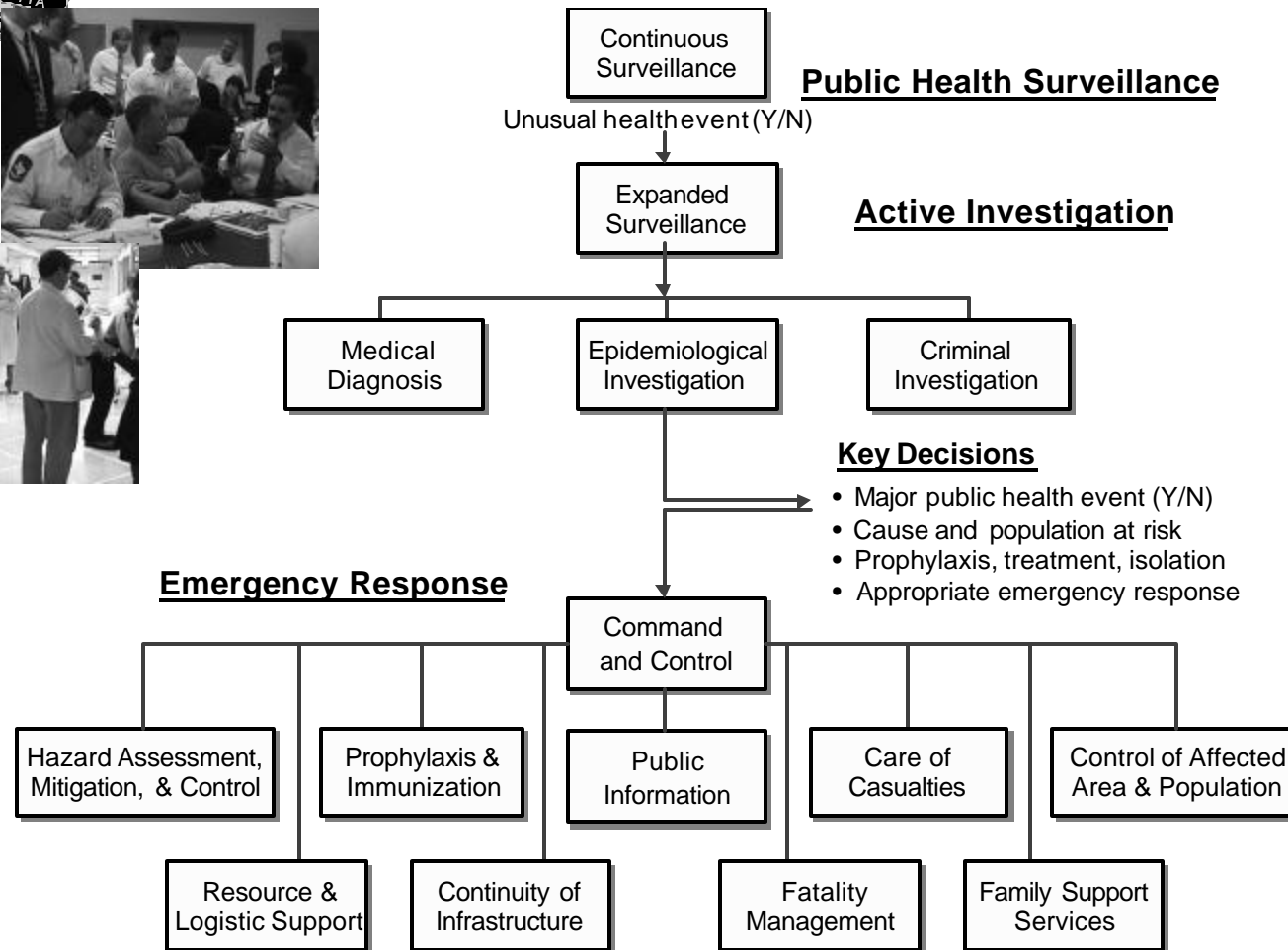
| | |
|----|---|
| 1 | Medical Surveillance |
| 2 | Medical Diagnosis |
| 3 | Epidemiological Investigation |
| 4 | Criminal Investigation |
| 5 | Mass Prophylaxis |
| 6 | Residual Hazard Assessment and Mitigation |
| 7 | Control of Affected Area and Population |
| 8 | Care of Presented Casualties and Worried Well |
| 9 | Fatality Management |
| 10 | Emergency Management Operations |
| 11 | Logistic and Resource Support |
| 12 | Continuity of Critical Infrastructure |
| 13 | Family Support Services |

Let the problem drive the solution



BW Response Template and Key Decisions

U.S. Army Soldier and Biological Chemical Command





U.S. Army Soldier and Biological Chemical Command

BW IRP Tasks



- Mass prophylaxis
- Building protection
- Building decontamination
- Contagious workshop with CDC
- Epi/criminal investigation
- Planning guide for responding to BW incidents
- BW casualty projection methods
- Casualty spreadsheet report
- Modular Emergency Medical System (MEMS)
- Adapt template to military installations

Conclusion

U.S. Army Soldier and Biological Chemical Command

The Improved Response Program has provided civilian emergency managers and first responders logical response solutions that they can use as a starting point to improve their overall preparedness for chemical and biological terrorism

